

LISTING OF CLAIMS

1. (Previously Presented) A resin composition in the form of an adhesive or sealant which exhibits reversible crosslinking behavior prepared by copolymerizing in the absence of radiation conditions an alpha, beta ethylenically unsaturated monomer with an oil soluble metal salt prepared by reacting (A) a metal compound with (B) an acid functional compound which is a reaction product of (1) an alpha-beta ethylenically unsaturated hydroxy compound and (2) a carboxylic polyacid, anhydride, sulfur oxide, or phosphorus oxide.
2. (Original) The resin composition of claim 1 prepared in the presence of a free radical initiator.
3. (Original) The resin composition of claim 1 in the form of a hot melt adhesive.
4. (Previously Presented) The resin composition of claim 1 in the form of a pressure sensitive adhesive.
5. (Original) The resin composition of claim 4 wherein the pressure sensitive adhesive is a solvent based adhesive.
6. (Original) The resin composition of claim 1 wherein the alpha, beta ethylenically unsaturated monomer is one or more (meth)acrylates.
7. (Original) The resin composition of claim 6 in the form of a pressure sensitive adhesive wherein the unsaturated monomer is a mixture of butyl acrylate and 2-ethyl hexyl acrylate.
8. (Cancelled)
9. (Original) The composition of claim 1 wherein the metal of the metal compound is selected from the group consisting of lithium, sodium, potassium, cesium, magnesium, calcium, strontium, barium, titanium, zirconium, vanadium, chromium, molybdenum, tungsten,

manganese, iron, cobalt, nickel, palladium, copper, zinc, cadmium, mercury, boron, aluminum, gallium, indium, silicon, germanium, tin, lead, antimony, and bismuth.

10. (Original) The composition of claim 9 wherein the metal salt is zinc oxide.
11. (Original) The composition of claim 1 wherein the carboxylic polyacid, anhydride, sulfur oxide, or phosphorus oxide is selected from the group consisting of include phthalic acid, trimellitic anhydride, pyromellitic anhydride, 5-norbornene-endo-2,3-dicarboxylic anhydride, naphthyl anhydride, naphthalene tetracarboxylic acid dianhydride, maleic anhydride, succinic anhydride, chlorendic anhydride, maleic acid, succinic acid, fumaric acid, oxalic acid, malonic acid, glutaric acid, adipic acid, dimer fatty acids, styrene/maleic anhydride polymers, and methyl hexahydrophthalic anhydride.
12. (Original) The resin composition of claim 1 wherein the alpha-beta ethylenically unsaturated hydroxyl compound is an ethylenically unsaturated hydroxy derivative of a polyol.
13. (Original) The resin composition according to claim 12, wherein the said ethylenically unsaturated hydroxy derivative of polyol is selected from the group consisting of ethylene glycol, propylene glycol, 1,3-propanediol, 1,2, 1,3 or 1,4 butanediols, 2-methyl-1,3-propane diol (MPDiol), neopentyl glycol (NPG), alkoxyated derivatives of such diols, polyether diols, and polyester diols.
14. (Original) The resin composition according to claim 1 wherein the said oil soluble metal salt is a zinc salt prepared by reacting methyl hexahydrophthalic anhydride with a polyethylene glycol acrylate of the formula $\text{HO}(\text{C}_2\text{H}_5\text{O})_n \text{OCHC}=\text{CH}_2$ wherein n is 6 to form a half ester, and reacting the half ester with zinc oxide.
15. (Cancelled).
16. (Cancelled).

17. (Cancelled).

18. (Cancelled).

19. (Cancelled).

20. (Cancelled).

21. (Cancelled).

22. (Cancelled).

23. (Previously Presented) The process of claim 17 wherein the metal salt is zinc oxide, the hydroxy functional compound is polyethylene glycol having 2 to 10 ethylene units, and the carboxylic polyacid, anhydride, sulfur oxide, or phosphorus oxide is methyl hexahydrophthalic anhydride.

24. (Cancelled).

25. (Cancelled).

26. (Previously Presented) The resin composition of claim 1 in the form of a putty.